Test Report
Gradation test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	2
Date	11-Nov-2018

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone ll Specification for PQC
2	4.75 mm	14	7.00	7.00	93.00	90-100	
3	2.36 mm	21	10.50	17.50	82.50	75-100	
4	1.18 mm	16	8.00	25.50	74.50	55-90	
5	600 µ	48	24.00	49.50	50.50	35-59	
6	300 µ	59	29.50	79.00	21.00	8-30	
7	150 µ	36	18.00	97.00	3.00	0-10	

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Gradation test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	10-Nov-2018

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained (%)	Percentage of weight retained (%)	Passing		Remarks
					Test Result	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	494	12.35	12.35	87.65	85-95	
3	19.00	322	8.05	20.40	79.60	68-88	
4	9.50	637	15.93	36.33	63.68	45-65	
5	4.75	421	10.53	46.85	53.15	30-55	
6	0.60	953	23.83	70.68	29.33	8-30	
7	0.15	857	21.43	92.10	7.90	5-15	
8	0.08	257	6.43	98.53	1.48	0-5	

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Gradation test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	2
Date	9-Nov-2018

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained (%)	Percentage of weight retained (%)	Passing		Remarks
					Test Resul	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	497	12.43	12.43	87.58	85-95	
3	19.00	326	8.15	20.58	79.43	68-88	
4	9.50	633	15.83	36.40	63.60	45-65	
5	4.75	420	10.50	46.90	53.10	30-55	
6	0.60	947	23.68	70.58	29.43	8-30	
7	0.15	841	21.03	91.60	8.40	5-15	
8	0.08	261	6.53	98.13	1.88	0-5	

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Water absorption test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	8-Nov-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in	W_2g	2040	2035	
3	Weight of Saturated Aggregate in water	$W_s g = W_2 - W_1$	1279	1272	
4	dry aggregate in Air	W_3 g	2075	2060	
5	Volume of the Aggregate	$W_3 - W_s$	796	788	
6	Aggregate	W_4g	2036	2031	
7	Specific Gravity	$W_4/(W_3 - W_s)$	2.56	2.58	2.57
8	Apparent Specific Gravity	$W_4/(W_4 - W_s)$	2.69	2.68	2.68
9	Water Absorption	$(W_4 - W_3)*100/W_4$	1.92	1.43	1.68

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Water absorption test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	2
Date	9-Nov-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Immersed in Water	W_1 g	765	765	
2	Aggregates Immersed in	W_2g	2055	2025	
3	Weight of Saturated Aggregate in water	$W_s g = W_2 - W_1$	1290	1260	
4	dry aggregate in Air	W_3 g	2090	2050	
5	Volume of the Aggregate	$W_3 - W_s$	800	790	
6	Aggregate	W_4g	2051	2021	
7	Specific Gravity	$W_4/(W_3 - W_s)$	2.56	2.56	2.56
8	Apparent Specific Gravity	$W_4/(W_4 - W_s)$	2.70	2.66	2.68
9	Water Absorption	$(W_4 - W_3)*100/W_4$	1.9	1.43	1.67

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Impact test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse aggregates
Sample No	1
Date	8-Nov-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1305	1302
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	345	342
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	82	83
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	263	259
6	Aggregate Impact Value (w4 / w3)x100	%	23.77	24.27
7	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **24.02** %

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Quality of Bitumen

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 73 – 1992 & Specification for Road & Bridge Works, MORT&H, Revision IV.
Grade of Bitumen	60 / 70
Location	Hot Mix Plant
Material	Bitumen
Sample No	1
Date	17-Oct-2018

Sl. No.	Description	Test Results	Requirement as per IS:73 - 1992
1	Penetration at 25^0C , 1 / 10 mm	64	60 – 70
2	Softening Point, (^{0}C)	52	45 – 55
3	Specific Gravity	1.1	Min. 0.97
4	Ductility at 27^0C, in cm	81	Min. 75
5	Flash Point, (^{0}C)	179	Min. 175

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Quality of Bitumen

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 73 – 1992 & Specification for Road & Bridge Works, MORT&H, Revision
Grade of Bitumen	60 / 70
Location	Hot Mix Plant
Material	Bitumen
Sample No	2
Date	17-Oct-2018

Sl. No.	Description	Test Results	Requirement as per IS:73 - 1992
1	Penetration at 25^0C , 1 / 10 mm	65	60 – 70
2	Softening Point, (^{0}C)	51	45 – 55
3	Specific Gravity	1.1	Min. 0.97
4	Ductility at 27^0C, in cm	79	Min. 75
5	Flash Point, (^{0}C)	180	Min. 175

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Enginee
Project Division
Yelahanka Zone
Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Location	At Site
Material	Bitumen
Sample No	1
Date	20-Oct-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.653	1.652	1.651
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.012	0.011	0.01
6	Rate of spread (d/a)	kg / m^2	0.300	0.275	0.250
7	Average	kg / m^2	0.275		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.275 kg / m2

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Location	At Site
Material	Bitumen
Sample No	2
Date	20-Oct-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.652	1.651	1.65
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.011	0.01	0.009
6	Rate of spread (d/a)	kg / m^2	0.275	0.25	0.225
7	Average	kg / m^2	0.250		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.250 kg / m2

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone

Test Report
Rate of Spread of Tack Coat

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Location	At Site
Material	Bitumen
Sample No	3
Date	20-Oct-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.652	1.652	1.651
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.011	0.011	0.01
6	Rate of spread (d/a)	kg / m^2	0.275	0.275	0.25
7	Average	kg / m^2	0.283		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.283 kg / m2

Note:

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ii. The results relate only to the items tested.

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Location	At Site
Material	Bitumen
Sample No	4
Date	21-Oct-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.653	1.652	1.649
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.012	0.011	0.008
6	Rate of spread (d/a)	kg / m^2	0.300	0.275	0.200
7	Average	kg / m^2	0.258		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.258 kg / m2

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Location	At Site
Material	Bitumen
Sample No	5
Date	21-Oct-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.651	1.654	1.653
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.01	0.013	0.012
6	Rate of spread (d/a)	kg / m^2	0.250	0.325	0.300
7	Average	kg / m^2	0.292		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.292 kg / m2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Location	At Site
Material	Bitumen
Sample No	6
Date	21-Oct-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.654	1.653	1.648
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.013	0.012	0.007
6	Rate of spread (d/a)	kg / m^2	0.325	0.3	0.175
7	Average	kg / m^2	0.267		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.267 kg / m2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Impact Value

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregate
Sample No	1
Date	19-Oct-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1306	1310
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	346	350
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	82	84
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	264	266
6	Aggregate Impact Value (w4 / w3)x100	%	23.70	24.00
7	Specified Limit	%	24	

Results: Average Aggregate Impact Value: **23.85** %

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Particle Shape

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Hot Mix Plant
Material	Coarse Aggregates
Sample No	1
Date	19-Oct-2018

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	0	19.5	0	58.5	0
31.5	25	0	16.95	0	-	0
25	20	1559	13.5	239	40.5	257
20	16	1442	10.8	121	32.4	148
16	12.5	953	8.55	148	25.6	155
12.5	10	467	6.75	69	20.2	75
10	6.3	236	4.89	58	14.7	65
	SW	4657	SWf	635	SWe	700

Flakiness Index 13.64 %
Elongation Index 15.03 %

Combined Flakiness and Elongation Indices : 28.67 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for Bituminous Concrete is 35%.

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